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increasing light absorption by said photo responsive device close to the surface upon which light is incident.

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15(Twice Amended). A method for producing a solar cell having increased absorption of light radiation incident on a surface thereof which comprises the steps of: (a) forming a grating on the surface of said solar cell upon which the light is incident such that higher grating orders are generated within said photo responsive device and a greater amount of the incident light entering said photo responsive device propagates more closely to the surface upon which the light is incident than is achieved by a refractive surface; (b) removing surface contamination; (c) forming an n-type junction using gas source doping; and (d) forming n- and p-electrical contacts.

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20(Twice Amended). A method for producing a solar cell having increased absorption of light radiation incident on a surface thereof which comprises the steps of: (a) forming a grating on the surface of said solar cell upon which the light is incident such that higher grating orders are generated within said photo responsive device and a greater amount of the incident light entering said photo responsive device propagates more closely to the surface upon which the light is incident than is achieved by a refractive surface; (b) cleaning the surface to remove surface contamination; (c) forming an n-type junction by ion implantation; (d) annealing the solar cell formed thereby; and (e) forming n- and p-electrical contacts.

REMARKS

Claims 1-24 are currently pending in the above-identified patent application. In the subject Office Action the Examiner rejected claims 1-3, 6, 8-10, 12 and 13 under 35 U.S.C. 103(a) as being unpatentable over Zaidi et al. ("Si Texturing with Sub-Wavelength Structures") in view of Braun et al. (U.S. Patent No. 5,035,770), since the Examiner asserted that Zaidi et al. discloses a method for increasing light absorption of solar cells by fabricating a diffraction grating on the light-incident surface of a silicon substrate. The Examiner continued by stating that Braun teaches a method for forming a grating on a photo detector "to